

# Product Data Sheet

Date of Issue: 26 Nov 2019

## 1. Product Information

- Product Name : Flamma® 581 Hydrazide
- Catalog Number : KWH1415
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Purple Solid
- Storage Conditions : Protect from Light at -20 °C

## 2. Additional Information

- Fluorophore Label : Flamma® 581
- Reactive Group : Hydrazide
- Reactive Toward : Aldehyde, Ketone
- Molecular Weight : 933.2 g/mol
- Excitation<sub>Max</sub> : 578 ± 3 nm
- Emission<sub>Max</sub> : 593 ± 4 nm
- Extinction Coefficient : ≥ 129,000 /cm·M

## 3. Description

Flamma® Fluors 581 Hydrazide is a reactive form of orange fluorescent dye induced from benzindocyanine structure and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 578/593 nm, similar to that of Alexa 594 and DyLight 594. Flamma 581 might be excited using 561, 568 or 578 nm laser lines and displays excellent optical property. Hydrazides can label aldehyde and ketone through reductive amination reaction to form an imine linkage. The main labeling target for hydrazides are free reducing sugars on biomolecules, and prior to conjugation, primary and secondary alcohols on polysaccharide and glycoprotein are usually oxidized to aldehyde and ketone. We offer Flamma Fluors 581 hydrazide for labeling of polysaccharide, glycoprotein and other biomolecules bearing aldehyde or ketone.